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Supplemental Material to:

Jonathan W. Snow, Andrew Hale, Stephanie K. Isaacs, Aaron L. Baggish, Stephen Y. Chan

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Supplementary Data

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Supplementary Figure Legends

Supplemental Figure 1. Consistent expression of endogenous miRNAs in plasma and organ tissue of mice and honey bees fed a variety of diets. (A) After ingesting a lard diet replete with miR-21, *miR-21* -/- recipient mice displayed consistent expression of miR-16 in plasma (left graph) and miR-195 in organ tissue (middle graph) (N=6 mice per group). Additionally, wildtype mice (*miR-21* +/+) displayed consistent expression of miR-21 in plasma (right graph). **(B)** After ingesting vegetarian (black bar), soy (gray bar), or lard (hatched bar) diets, wildtype recipient mice displayed consistent expression of miR-16 in plasma (left graph) and miR-195 in organ tissue (N=5 mice per group). **(C)** After ingesting unprocessed avocado, wildtype recipient mice displayed expression of miR-16 in plasma (left graph) and miR-195 in organ tissue (N=4 mice). **(D)** Consistent expression of β-actin in the abdominal tissue of recipient honey bees (N=3 nurses; N=4 foragers). In all panels, gene expression is expressed as "real time" cycle number (C_t). Error bars reflect SEM; * signifies $p< 0.05$; NS signifies $p\geq 0.05$.

Supplemental Figure 1